



January 11, 2010

Tom Harrington
Jefferson Local Development Corporation
P.O. Box 1079
Whitehall, Montana 59759

Subject: Veteran's Home Water Availability

Dear Tom:

The following is an analysis of the ability of the City of Boulder to provide water for domestic use, irrigation, and fire protection for the proposed Veteran's Home Project.

The following water demand projections were developed by increasing the sewer flow projection made in our previous analysis by 25% and adding irrigation demands:

Average Day Wastewater Flow	7390 gpd
25% adjustment for water demand	1848 gpd
Average Day Water Demand (with no irrigation)	9238 gpd
Peaking Factor	4
Peak Day Water Demand (with no irrigation)	26 gpm
Irrigation (based on 1 acre of landscaping, 1-inch per week of water application)	3 gpm or 3879 gpd
Peaking factor (assume water every other day)	2
Peak Day Irrigation Demand	6 gpm
Average Summer Day Water Demand	13,117 gpd
Peak Day Water Demand	32 gpm

The predicted water demands for the City of Boulder in the year 2026 as listed in Table 4 of the *Preliminary Engineering Report, Water and Wastewater Extension to Boulder South Campus and the Evans Addition* dated in November, 2007 are as follows:

Ave Day Demand	1,719,00 gpd
Peak Day Demand	1,194 gpm

The current water system has a pumping capacity of 1800 gpm and also has 575,000 gallon of storage, far more capacity than the combined future demand of the City and the Veterans Home require.